

REPORT OF THE COUNCIL TO THE EIGHTY-FOURTH ANNUAL
GENERAL MEETING OF THE SOCIETY.

The following table shows the progress and present state of
the Society :—

	Compounders	Annual Subscribers	Total Fellows	Associates	Patron and Hon. Members	Grand Total
1902 December 31	257	383	640	44	1	685
Since elected	+ 3	+ 26	...	+ 4	+ 2	...
Deceased	- 8	- 10	...	- 1	...	...
Resigned ... ..	...	- 8	...	...	...	...
Removals	+ 14	- 14	...	...	...	...
Expelled ... ..	...	...	...	...	...	...
1903 December 31	266	377	643	47	3	693

Mr. Maw's Account as Treasurer of the Royal

RECEIVED.

Balances, 1903 January 1:—	£	s.	d.	£	s.	d.
At Bankers', as per Pass-book	231	16	9			
Country Cheque not credited till 1903 ...	8	10	6			
At Bankers', on deposit	300	0	0			
				540	7	3
Dividends on £1,250 Metropolitan 3-per-cent. Stock	35	12	7			
Dividends on £932 19 0 Metropolitan 2½-per-cent. Stock	22	3	1			
Dividends on £3,400 East Indian Railway 3-per-cent. Debenture Stock	96	17	11			
Dividends on £3,200 London and North-Western Railway 3-per-cent. Debenture Stock ...	90	8	0			
Dividends on £4,000 Midland Railway 2½-per-cent. Debenture Stock	94	3	4			
Dividends on £1,860 Gas Light and Coke Co. 3-per-cent. Debenture Stock	52	10	11			
Dividends on £1,650 Commercial Gas Co. 3-per-cent. Debenture Stock	47	0	6			
Dividends on £500 Lancashire and Yorkshire Railway 3-per-cent. Preference Stock...	7	1	10			
Interest on £300 on Deposit at Bankers'	2	0	3			
				447	18	5

Received on account of Subscriptions:—

Arrears	134	8	0			
Annual Contributions for 1903	554	8	0			
„ „ in Advance	10	10	0			
Admission Fees	56	14	0			
First Contributions	39	18	0			
				795	18	0
Composition Fees				260	8	0

Sales of Publications, &c.:—

At Williams and Norgate's, 1902	7	13	11			
At Society's Rooms, 1903	58	0	6			
Sales of Photographs	38	11	0			
				104	5	5

Income Tax refunded by Commissioners of Inland Revenue	28	13	7			
Due to Assistant Secretary on account of Turnor and Horrox Fund	2	8	3			

Examined and found correct, 1904 Jan. 5:

W. J. S. LOCKYER,
C. THWAITES,
A. C. D. CROMMELIN.

£2,179 18 11

Astronomical Society, from 1903 January 1 to December 31.

PAID.

	£	s.	d.	£	s.	d.
Assistant Secretary: Salary	250	0	0			
" " for assistance in editing Society's Publications	50	0	0			
				300	0	0
House Duty	2	12	6			
Fire Insurance	9	9	6			
				12	2	0
Printing, plates, &c., <i>Monthly Notices</i> (Spottiswoode & Co.)	513	18	10			
Photo-engraving, <i>Monthly Notices</i> (Dent & Co.) ...	6	2	9			
Printing, &c., Appendix to <i>Memoirs</i> (Harrison & Sons)	16	13	6			
Plates for Appendix to <i>Memoirs</i> (London Stereo- scopic Co.)	10	9	6			
Printing, &c., Appendix to <i>Monthly Notices</i> (Harrison & Sons)	3	3	6			
Printing, &c., List of Fellows and Miscellaneous (Spottiswoode & Co.)	23	9	6			
				573	17	7
Computation of Ephemerides in <i>Monthly Notices</i> ...				15	0	0
Turnor and Horrox Funds: Purchases for Library	22	3	8			
Binding books in Library	28	19	10			
				51	3	6
Reproduction of Photographs, Hinton & Co. ...				30	12	8
Cataloguing astronomical literature for the Inter- national Catalogue of Scientific Literature ...				30	0	0
Clerk's Wages	52	0	0			
Postage and Telegrams	83	15	5			
Carriage of Parcels, &c.	2	14	11			
Stationery (Spottiswoode & Co.)	9	0	6			
Sundry Stationery and Office Expenses	3	15	5			
				151	6	3
Expenses of Meetings	19	14	0			
Lantern Expenses	7	12	6			
Time Signal, Rental of Wire	5	0	0			
				32	6	6
Special Allowance to Assistant Secretary during progress of work carried out by H.M. Office of Works				36	0	0
House Expenses	61	18	5			
Coals and Gas	52	12	2			
Electric Light Expenses	5	16	11			
Sundry Fittings and Repairs	19	5	5			
Sundries	5	12	8			
				145	5	7
Partition in Instrument Room	17	10	0			
Decorating	9	19	6			
Restoring Oil Painting	2	18	6			
				30	8	0
Lee and Janson Fund: grant to Mrs. Martin				20	0	0
Purchase of £500 Lancashire and Yorkshire Railway 3-per-cent. Preference Stock at 93½, including brokerage, &c....				471	8	0
Cheque-book, Deductions on Cheques, &c.				11	4	
Cheques outstanding, 1902 Dec. 31				16	19	6
Repayment to Assistant Secretary of amounts due 1902 Dec. 31 on Account of Petty Cash and Turnor and Horrox Fund				2	1	9
Balances, 1903 December 31:—						
At Bankers', as per Pass-book	246	9	5			
Country Cheque not credited till 1904	9	16	0			
In hand of Assistant Secretary on Petty Cash Account	4	10	10			
				260	16	3
				<u>£2,179</u>	<u>18</u>	<u>11</u>

Report of the Auditors.

We have examined the Treasurer's accounts of receipts and expenditure for the year 1903, and have found and certified the same to be correct. The cash in hand on December 31, 1903, including the balance at the bankers', &c., amounted to 260*l.* 16*s.* 3*d.*

The invested property of the Society has been increased by the purchase of 500*l.* Lancashire and Yorkshire Railway 3-per-cent. Consolidated Preference Stock.

The books, instruments, and other effects in the possession of the Society have been examined, and they appear to be in a satisfactory condition.

We have laid on the table a list of the names of those Fellows who are in arrear for sums due at the last Annual General Meeting, with the amount due against each Fellow's name.

(Signed) W. J. S. LOCKYER.
C. THWAITES.
A. C. D. CROMMELIN.

1904 January 5.

Trust Funds.

The Turnor Fund: A sum of £464 18*s.* East Indian Railway 3-per-cent. Debenture Stock; the interest to be used in the purchase of books for the Library.

The Horrox Memorial Fund: A sum of £103 6*s.* East Indian Railway 3-per-cent. Debenture Stock; the interest to be used in the purchase of books for the Library.

The Lee and Janson Fund: A sum of £334 10*s.* 9*d.* East Indian Railway 3-per-cent. Debenture Stock; the interest to be given by the Council to the widow or orphan of any deceased Fellow of the Society who may stand in need of it.

The Hannah Jackson (née Gwilt) Fund: A sum of £309 18*s.* 6*d.* East Indian Railway 3-per-cent. Debenture Stock; the interest to be given in Medals or other awards, in accordance with the terms of the Trust.

Assets and Present Property of the Society, 1904 January 1.

	£	s.	d.	£	s.	d.
Balances, 1903 December 31:—						
At Bankers', as per Pass-book	246	9	5			
Country Cheque not credited	9	16	0			
In hand of Assistant Secretary on Petty Cash Account	4	10	10			
	260	16	3			
Less due to Assistant Secretary on account of Turnor and Horrox Fund... ..	2	8	3	258	8	0
Due on account of Subscriptions:—						
3 Contributions of 5 years' standing	31	10	0			
3 " 4 "	25	4	0			
6 " 3 "	37	16	0			
32 " 2 "	134	8	0			
64 " 1 "	134	8	0			
	363	6	0			
Less 5 Contributions paid in advance	10	10	0	352	16	0
Due for Photographs sold				2	11	0
Due from Messrs. Williams and Norgate for sales of Publications during 1903				9	4	5
£3,400 East Indian Railway 3-per-cent. Debenture Stock, including the Turnor Fund, the Horrox Memorial Fund, the Lee and Janson Fund, and the Hannah Jackson (née Gwilt) Fund.						
£3,200 London and North-Western Railway 3-per-cent. Debenture Stock.						
£4,000 Midland Railway 2½-per-cent. Debenture Stock.						
£1,860 Gas Light and Coke Co. 3-per-cent. Debenture Stock.						
£1,650 Commercial Gas Company 3-per-cent. Debenture Stock.						
£500 Lancashire and Yorkshire Railway 3-per-cent. Consolidated Preference Stock.						
£1,250 Metropolitan 3-per-cent. Stock.						
£932 19 0 Metropolitan 2½-per-cent. Stock.						
Astronomical and other Manuscripts, Books, Prints, and Instruments.						
Furniture, &c.						
Stock of Publications of the Society.						
Three Gold Medals.						

Stock in hand of volumes of the *Memoirs* :—

Vol.	At Society's Rooms	At Williams & Norgate's	Vol.	At Society's Rooms	At Williams & Norgate's
I. Part 1	8	...	XXXIII.	83	...
I. Part 2	42	...	XXXIV.	88	...
II. Part 1	51	3	XXXV.	52	...
II. Part 2	16	3	XXXVI.	125	8
III. Part 1	65	1	XXXVII. Part 1	268	7
III. Part 2	81	1	XXXVII. Part 2	214	8
IV. Part 1	76	3	XXXVIII.	200	1
IV. Part 2	89	3	XXXIX. Part 1	164	2
V.	62	3	XXXIX. Part 2	171	2
VI.	50	6	XL.	182	1
VII.	89	3	XLI.	317	1
VIII.	61	3	XLII.	158	3
IX.	63	3	XLIII.	157	...
X.	63	...	XLIV.	136	1
XI.	71	...	XLV.	172	...
XII.	77	...	XLVI.	147	2
XIII.	68	...	XLVII. Part 1	2	...
XIV.	292	...	XLVII. Part 2	18	...
XV.	56	...	XLVII. Part 3	2	...
XVI.	78	1	XLVII. Part 4	8	...
XVII.	60	1	XLVII. Part 5	8	...
XVIII.	60	...	XLVII. Part 6	9	...
XIX.	66	...	XLVII.	190	1
XX.	61	...	XLVIII. Pt. 1	222	...
XXI. Part 1	182	...	XLVIII. Pt. 2	223	1
XXI. Part 2	49	...	XLIX. Part 1	347	1
XXI.	27	...	XLIX. Part 2	234	2
XXII.	83	...	L.	220	2
XXIII.	67	...	LI.	243	...
XXIV.	75	1	LII.	274	2
XXV.	80	...	LIII.	274	...
XXVI.	90	1	LIV. App. I.	577	...
XXVII.	341	1	App. II.	591	...
XXVIII.	291	...	App. III.	630	...
XXIX.	333	1	App. IV.	678	...
XXX.	90	1	App. V.	682	...
XXXI.	66	...	Index to <i>Memoirs</i> }	597	2
XXXII.	70	...			

Stock in hand of volumes of the *Monthly Notices* :—

Vol.	At Society's Rooms	At Williams & Norgate's	Vol.	At Society's Rooms	At Williams & Norgate's
I.	51	...	XXXIV.	65	1
II.	53	...	XXXV.	51	...
III.	...	...	XXXVI.	25	1
IV.	...	...	XXXVII.	30	3
V.	...	...	XXXVIII.	95	1
VI.	38	...	XXXIX.	95	...
VII.	2	...	XL.	103	2
VIII.	149	1	XLI.	103	5
IX.	23	3	XLII.	111	1
X.	170	1	XLIII.	108	2
XI.	181	...	XLIV.	110	2
XII.	104	1	XLV.	113	1
XIII.	176	2	XLVI.	107	...
XIV.	175	3	XLVII.	121	2
XV.	167	1	XLVIII.	117	...
XVI.	152	1	XLIX.	108	7
XVII.	164	...	L.	108	9
XVIII.	241	...	LI.	109	6
XIX.	51	...	LII.	106	10
XX.	31	...	LIII.	108	13
XXI.	16	...	LIV.	108	13
XXII.	30	...	LV.	119	...
XXIII.	17	...	LVI.	119	2
XXIV.	22	...	LVII.	122	2
XXV.	13	...	LVIII.	120	...
XXVI.	9	...	LIX.	128	2
XXVII.	3	...	LX.	131	3
XXVIII.	70	...	LXI.	128	3
XXIX.	50	...	LXII.	132	4
XXX.	61	2	LXIII.	137	4
XXXI.	90	...	1st Index ...	540	1
XXXII.	106	5	2nd „ ...	788	...
XXXIII.	86	...			

LIBRARY CATALOGUE 538 ... 2

„ „ SUPPLEMENT 420 ...

In addition to the above volumes of the *Monthly Notices*, the

Society has a considerable stock of separate numbers of nearly all the volumes. With the exception, however, of Vols. XXXVI. to LXIII., no complete volumes can be formed from the separate numbers in stock.

Celestial Photographs.

The following is a list of reproductions of Celestial Photographs published by the Royal Astronomical Society for sale to the Fellows :—

R.A.S. Ref. No.	Subject.	Photographed by
1	Total Solar Eclipse, 1889 January 1	W. H. Pickering
2	Total Solar Eclipse, 1893 April 16	J. M. Schaeberle
3	Total Solar Eclipse, 1886 August 29	A. Schuster
4	Nebulæ in the <i>Pleiades</i>	Isaac Roberts
5	Nebula M 74 <i>Piscium</i> (N.G.C. 628)	Isaac Roberts
6	Great Nebula in <i>Orion</i>	Isaac Roberts
7	Milky Way near M 11	E. E. Barnard
8	Milky Way near Cluster in <i>Perseus</i>	E. E. Barnard
9	Comet <i>c</i> 1893 IV. (Brooks), 1893 October 21	E. E. Barnard
10	Comet <i>a</i> 1892 I. (Swift), 1892 April 7	E. E. Barnard
11	Nebula about η <i>Argûs</i>	David Gill
12	Portion of Moon (Hyginus-Albategnius)	Lœwy and Puiseux
13	Comet <i>c</i> 1893 IV. (Brooks), 1893 October 22	E. E. Barnard
14	Comet <i>c</i> 1893 IV. (Brooks), 1893 October 20	E. E. Barnard
15	Comet <i>c</i> 1893 IV. (Brooks), 1893 November 10	E. E. Barnard
16	Comet <i>a</i> 1892 I. (Swift), 1892 April 26	E. E. Barnard
17	Comet <i>f</i> 1892 III. (Holmes), 1892 November 10	E. E. Barnard
18	Comet <i>a</i> 1892 I. (Swift), 1892 April 18	E. E. Barnard
19	Portion of Moon (Alps, Apennines, &c.)	Lœwy and Puiseux
20	Nebula in <i>Andromeda</i>	Isaac Roberts
21	<i>Jupiter</i> , 1892 September 26	Lick Observatory
22	Cluster M 13 <i>Herculis</i> (N.G.C. 6205)	W. E. Wilson
23	Total Solar Eclipse, 1893 April 16 (5 sec.)	J. Kearney
24	Total Solar Eclipse, 1893 April 16 (20 sec.)	J. Kearney
25	The Moon (Age 7 ^d 3 ^h)	Lick Observatory
26	The Moon (Age 12 ^d 6½ ^h)	Lick Observatory
27	The Moon (Age 16 ^d 18 ^h)	Lick Observatory
28	The Moon (Age 23 ^d 8 ^h)	Lick Observatory

R.A.S. Ref. No.	Subject.	Photographed by
29	The Sun, 1892 February 13	Roy. Obs., Greenwich
30	The Sun, 1892 July 8	Roy. Obs., Greenwich
31	Portion of Moon (Region of Maginus)	Læwy and Puiseux
32	The Moon (Age 14 ^d 1 ^h)	Lick Observatory
33	Portion of Moon (Ptolemæus, &c.)	Lick Observatory
34	Portion of Moon (Mare Serenitatis)	Lick Observatory
35	Portion of Moon (Clavius, Licetus, &c.)	Lick Observatory
36	Portion of Moon (Regiomontanus, &c.)	Lick Observatory
37	Portion of Moon (Tycho, Thebit, &c.)	Lick Observatory
38	Portion of Moon (Theophilus, &c.)	Lick Observatory
39	Total Solar Eclipse, 1896 August 9 (3 sec.)	S. Kostinsky
40	Total Solar Eclipse, 1896 August 9 (26 sec.)	A. Hansky
41	Cluster M 56 <i>Lyre</i> (N.G.C. 6779)	
42	Nebulæ M 81, 82 <i>Ursæ Majoris</i> (N.G.C. 3031, 3034)	
43	Cluster M 56 <i>Lyre</i> (enlarged) (N.G.C. 6779)	
44	Solar Corona, 1871 December 12, Baikul	H. Davis
45	Solar Corona, 1875 April 6, Siam	Lockyer and Schuster
46	Solar Corona, 1878 July 29, Wyoming	W. Harkness
47	Solar Corona, 1882 May 17, Egypt	Abney and Schuster
48	Solar Corona, 1883 May 6, Caroline Island	Lawrance and Woods
49	Solar Corona, 1885 September 9, Wellington, N.Z.	Radford
50	Solar Corona, 1886 August 29, Grenada, W.I.	A. Schuster
51	Solar Corona, 1887 August 19, Japan	M. Sugiyama
52	Solar Corona, 1889 January 1, California	W. H. Pickering
53	Solar Corona, 1889 December 22, Cayenne	J. M. Schaeberle
54	Solar Corona, 1893 April 16, Fundium	J. Kearney
55	Solar Corona, 1893 April 16, Brazil	A. Taylor
56	Great Nebula in <i>Orion</i>	W. E. Wilson
57	Dumb-bell Nebula, <i>Vulpecula</i> (N.G.C. 6853)	W. E. Wilson
58	Spiral Nebula, <i>Canes Venatici</i> (N.G.C. 5194)	W. E. Wilson
59	Ditto (enlarged) (N.G.C. 5194)	W. E. Wilson
60	Annular Nebula, <i>Lyra</i> (N.G.C. 6720)	W. E. Wilson
61	Meteor Trail and Comet Brooks, 1893 November 13	E. E. Barnard
62	Total Solar Eclipse, 1898 January 22 (5 sec.)	W. H. M. Christie
63	Total Solar Eclipse, 1898 January 22 (20 sec.)	W. H. M. Christie
64	Solar Corona, 1896 August 9, Novaya Zemlya	G. Baden-Powell
65	Solar Corona, 1898 January 22, Pulgaon, India	E. H. Hills
66	Nebula in <i>Andromeda</i>	Roy. Obs., Greenwich
67	Spectrum of Sun's limb, 1898 January 22	E. H. Hills

R.A.S. Ref. No.	Subject.	Photographed by
68	Annular Nebula, <i>Lyra</i> (N.G.C. 6720)	Lick Observatory
69	Dumb-bell Nebula, <i>Vulpecula</i> (N.G.C. 6853)	Lick Observatory
70	Spiral Nebula, <i>Canes Venatici</i> (N.G.C. 5194-5)	Lick Observatory
71	Spiral Nebula, <i>Ursa Major</i> (N.G.C. 5457)	Lick Observatory
72	Trifid Nebula, <i>Sagittarius</i> (N.G.C. 6514)	Lick Observatory
73	Great Nebula in <i>Orion</i>	Lick Observatory
74	Cluster M 13 <i>Herculis</i> (N.G.C. 6205)	Lick Observatory
75	Solar Surface with Faculæ	G. E. Hale
76	Faculæ and Prominences	G. E. Hale
77	Total Solar Eclipse, 1898 Jan. 22 ($\frac{2}{3}$ sec.)	W. H. M. Christie
78	Nebula H V. 14 <i>Cygni</i> (N.G.C. 6992)	W. E. Wilson
79	Portion of Moon (Theophilus, &c.)	Yerkes Observatory
80	Total Solar Eclipse, 1900 May 28 (30 sec.)	E. E. Barnard
81	Comet 1901 I., 1901 May 4	Roy. Obs., Cape of G. H.
82	Comet 1901 I., 1901 May 6	Roy. Obs., Cape of G. H.
83	Comet 1901 I., 1901 May 9	Perth Obs., W. Australia
84	Solar Surface with Faculæ	H. Deslandres
85	Solar Prominences	H. Deslandres
86	Nebula about Nova <i>Persei</i> , 1901 September 20	G. W. Ritchey
87	Nebula about Nova <i>Persei</i> , 1901 November 13	G. W. Ritchey
88	Total Solar Eclipse, 1901 May 18 (10 sec.)	F. W. Dyson
89	Total Solar Eclipse, 1901 May 18 (40 sec.)	F. W. Dyson
90	Comet <i>b</i> 1902 III. (Perrine), 1902 Sept. 29	Roy. Obs., Greenwich
91	Portion of Moon (Mare Serenitatis, &c.)	Yerkes Observatory
92	Portion of Moon (Rough Crater Region, Mare Nubium)	Yerkes Observatory
93	Portion of Moon (Tycho, Theophilus, &c.)	Yerkes Observatory
94	Portion of Moon (Bullialdus to Copernicus)	Yerkes Observatory
95	Portion of Moon (Copernicus)	Yerkes Observatory
96	Great Nebula in <i>Orion</i>	Yerkes Observatory
97	Great Nebula in <i>Orion</i> (Central portion)	Yerkes Observatory
98	Nebula in <i>Andromeda</i>	Yerkes Observatory
99	Nebula in <i>Cygnus</i> (N.G.C. 6960)	Yerkes Observatory
100	Nebula in <i>Cygnus</i> (N.G.C. 6992)	Yerkes Observatory
101	Cluster M 13 <i>Herculis</i> (N.G.C. 6205)	Yerkes Observatory
102	Cluster M 13 <i>Pegasi</i> (N.G.C. 7078)	Yerkes Observatory
103	Solar Surface with Faculæ	Yerkes Observatory
104	The Moon, 1900 April 5	P. Puiseux
105	The Moon, 1902 November 13	P. Puiseux
106	The Moon, 1903 February 6	P. Puiseux
107	The Moon, 1903 September 12	P. Puiseux

Nos. 44-55 and Nos. 64 and 65 form a series of corona photographs, oriented and reduced to the same scale.

The above photographs are now on sale to Fellows as prints, either platinotype or aristotype, mounted on sunk cut-out mounts, measuring 12 inches by 10 inches, and also as lantern slides. Nos. 44-55 and Nos. 64 and 65 are also supplied as transparencies, $6\frac{1}{4}$ inches square.

Price of prints, 1s. 6d. each; lantern slides, 1s. each; packing and postage extra.

Unmounted prints, 1s. each, can be obtained to order.

Transparencies, $6\frac{1}{4}$ inches square (Nos. 44-55 and Nos. 64 and 65), 3s. 6d. each.

Orders to be addressed to W. H. Wesley, Burlington House, London, W. In ordering prints or slides the R.A.S. Reference No. only need be quoted, but in the case of prints it should be stated whether platinotypes or aristotypes are required.

Instruments belonging to the Society.

A brief description of the chief instruments and other particulars relating to them will be found in *Monthly Notices*, vol. xxxvi. p. 126.

- No. 1. The *Harrison* clock.
- „ 2. The *Owen* portable circles, by Jones.
- „ 3. The *Beaufoy* circle.
- „ 4. The *Beaufoy* transit instrument.
- „ 5. The *Herschel* 7-foot telescope.
- „ 6. The *Greig* universal instrument, by Reichenbach and Ertel. The transit telescope, by Utzschneider and Fraunhofer, of Munich.
- „ 7. The *Smeaton* equatorial.
- „ 8. The *Cavendish* apparatus.
- „ 9. The 7-foot Gregorian telescope (late Mr. Shearman's).
- „ 10. The variation transit instrument (late Mr. Shearman's).
- „ 11. The universal quadrat, by Abraham Sharp.
- „ 12. The *Fuller* theodolite.
- „ 13. The standard scale, by Troughton and Simms.
- „ 14. The *Beaufoy* clock, No. 1.
- „ 15. The *Beaufoy* clock, No. 2.
- „ 16. The *Wollaston* telescope.
- „ 17. The *Lee* circle.
- „ 18. The *Sharpe* reflecting circle.
- „ 19. The *Brisbane* circle.
- „ 20. The *Baker* universal equatorial.
- „ 21. The *Reade* transit.
- „ 22. The *Matthew* equatorial, by Cooke.

- No. 23. The *Matthew* transit instrument.
- „ 24. The *South* transit instrument.
- „ 25. A sextant, by Bird (formerly belonging to Captain Cook).
- „ 26. A globe showing the precession of the equinoxes.
- The *Sheepshanks* collection :—
- „ 27. (1) 30-inch transit instrument, by Simms, with level and two iron stands.
- „ 28. (2) 6-inch transit theodolite, with circles divided on silver; reading microscopes, both for altitude and azimuth; cross and siding levels; magnetic needle; plumb-line; portable clamping foot and tripod stand.
- „ 29. (3) Equatorial stand and clock movement for $4\frac{6}{10}$ -inch telescope (telescope lost); double-image micrometer; two wire micrometers; object-glass micrometer.
- „ 30. (4) $3\frac{1}{4}$ -inch achromatic telescope, with equatorial stand; double-image micrometer; one terrestrial and three astronomical eyepieces.
- „ 31. (5) $2\frac{3}{4}$ -inch achromatic telescope of $28\frac{1}{4}$ -inch focal length, with stand; one terrestrial and three astronomical eyepieces.
- „ 33. (7) 2-foot navy telescope.
- „ 34. (8) Transit instrument of 45 inches focal length, with iron stand and also Y's for fixing to stone piers; two axis levels.
- „ 35. (9) Repeating theodolite, by Ertel, with folding tripod stand.
- „ 36. (10) 8-inch pillar sextant, by Troughton, divided on platinum, with counterpoise stand and artificial horizon.
- „ 37. (11) Portable zenith telescope and stand, $2\frac{3}{4}$ -inch aperture and 45 inches focal length; 10-inch horizontal circle and 8-inch vertical circle, reading to 10'' by two verniers to each circle.
- „ 38. (12) 18-inch Borda repeating circle, by Troughton, $2\frac{1}{8}$ -inch aperture and 24 inches focal length; the circles divided on silver, the horizontal circle being read by four verniers, and the vertical circle by three verniers, each to 10''.
- „ 39. (13) 8-inch vertical repeating circle, with diagonal telescope, by Troughton and Simms; circle divided on silver, reading to 10''; a 5-inch circle at eye-end, reading to single minutes; horizontal circle 9 inches diameter in brass to single minutes.
- „ 40. (14) A set of surveying instruments, consisting of a 12-inch theodolite for horizontal angles only, reading to 10''; two sets of adjusting plates; tripod stand with enclosed telescope; heavy stand for theodolite; Y-piece of level; two large and three small ground-glass bubbles divided; level collimator, object-glass $1\frac{5}{8}$ -inch diameter

and 16 inches focal length ; micrometer eyepiece, comb, and wires ; mercury bottle and trough.

- No. 41. (15) Level collimator, with object-glass $1\frac{7}{8}$ -inch diameter and 16 inches focal length ; stand, rider-level, and fittings.
- „ 42. (16) 10-inch reflecting circle by Troughton, reading by three verniers to $20''$; counterpoise stand ; artificial horizon, with mercury ; two tripod stands.
- „ 43. (17) Hassler's reflecting circle, by Troughton, with counterpoise stand.
- „ 44. (18) 6-inch reflecting and repeating circle, by Troughton and Simms, contained in three boxes, two of which form stands. Circle divided on silver, reading to single minutes ; two inside arcs divided to single degrees, 150° degrees on each side ; artificial horizon and mercury.
- „ 45. (19) 5-inch reflecting and repeating circle, by Lenoir, of Paris.
- „ 46. (20) Reflecting circle, by Jecker, of Paris, 11 inches in diameter, with one vernier reading to $15''$.
- „ 47. (21) Box sextant ; reflecting plane and level.
- „ 48. (22) Prismatic compass, by Troughton and Simms.
- „ 49. (23) Mountain barometer.
- „ 50. (24) Prismatic compass, by Thomas Jones, mounted with a cylindrical lens.
- „ 51. (25) Ordinary $4\frac{1}{2}$ -inch compass with needle.
- „ 52. (26) Dipping needle, by Robinson.
- „ 53. (27) Compass needle, mounted for variation.
- „ 54. (28) Magnetic intensity needle, by Meyerstein, of Göttingen ; a strongly fitted brass box with heavy magnet ; filar suspension.
- „ 55. (29) Box of magnetic apparatus.
- „ 56. (30) Hassler's reflecting circle, by Troughton ; a $10\frac{1}{2}$ -inch reflecting and repeating circle, with stand and counterpoise, divided on platinum with two movable and two fixed indices ; four verniers reading to $10''$.
- „ 57. (31) Box sextant and glass plane artificial horizon, by Troughton and Simms.
- „ 58. (32) Plane $2\frac{3}{8}$ -inch speculum, artificial horizon and stand.
- „ 59. (33) $2\frac{1}{2}$ -inch circular level horizon, by Dollond.
- „ 60. (34) Artificial horizon, roof, and trough ; the trough $8\frac{1}{4}$ by $4\frac{1}{2}$ inches ; tripod stand.
- „ 61. (35) Set of drawing instruments, consisting of 6-inch circular protractor and common protractor, T-square ; one beam compass.
- „ 62. (36) A pantograph.
- „ 63. (37) A noddy.
- „ 64. (38) A small Galilean telescope with object-glass of rock crystal.
- „ 65. (39) Five levels.

- No. 66. (40) 18-inch celestial globe.
- „ 67. (41) Varley stand for telescope.
- „ 69. (43) Telescope, with object-glass of rock crystal.
- „ 71. Portable altazimuth tripod.
- „ 72. Four polarimeters.
- „ 74. Registering spectroscope, with one large prism.
- „ 76. Two five-prism direct-vision spectroscopes.
- „ 78. $9\frac{1}{4}$ -inch silvered-glass reflector and stand, by Browning.
- „ 79. Spectroscope.
- „ 80. A small box, containing three square-headed Nicol's prisms ; two Babinet's compensators ; two double-image prisms ; three Savarts ; one positive eyepiece, with Nicol's prism ; one dark wedge.
- „ 81. A back-staff, or Davis' quadrant.
- „ 82. A nocturnal or star dial.
- „ 83. An early non-achromatic telescope, of about 3 feet focal length, in oak tube, by Samuel Scatliffe, London.
- „ 84. A Hollis observing chair.
- „ 85. Double-image micrometer, by Troughton and Simms.
- „ 86. $4\frac{1}{2}$ -inch Gregorian reflecting telescope, by Short, with altazimuth stand and 6-inch altitude and azimuth circles and two eyepieces.
- „ 87. $3\frac{1}{4}$ -inch Gregorian reflecting telescope with wooden tripod stand.
- „ 88. Pendulum, with 5-foot brass suspension rod, working on knife-edges, by Thomas Jones.
- „ 89. A Rhabdological Abacus. A contrivance invented by Mr. H. Goodwyn, consisting of a box filled with compartments, in which are square rods covered with numbers, which can be arranged so as to facilitate the labour of multiplying high numbers.
- „ 90. An Arabic celestial globe of bronze, $5\frac{3}{4}$ inches in diameter.
- „ 91. Astronomical time watch-case, by Professor Chevallier.
- „ 92. 2-foot protractor, with two movable arms, and vernier.
- „ 93. Beam compass, in box.
- „ 94. 2-foot navigation scale.
- „ 95. Stand for testing measures of length.
- „ 96. Artificial planet and star, for testing the measurement of a fixed distance at different position-angles.
- „ 97. 12-cell Leclanché battery.
- „ 98. 2-foot 6-inch navy telescope, with object-glass $2\frac{1}{2}$ inches, by Cooke, with portable wooden tripod stand.
- „ 99. 12-inch transit instrument, by Fayrer and Son, with level and portable stand.
- „ 100. 9-inch transit instrument, with level and iron stand.
- „ 101. Small equatorial sight instrument, by G. Adams, London.
- „ 102. Sun-dial, by Troughton.
- „ 103. Sun-dial, by Casella.

- No. 104. Sun-dial.
- „ 105. Box sextant, by Troughton and Simms.
 - „ 106. Prismatic compass, by Schmalcalder, London.
 - „ 107. Compass, by C. Earle, Melbourne.
 - „ 108. Prismatic compass, by Negretti and Zambra.
 - „ 109. Dipleidoscope, by E. Dent.
 - „ 110. Abney level, by Elliott.
 - „ 111. Pocket spectroscope, by Browning.
 - „ 112. Universal sun-dial.
 - „ 113. Double sextant, by Jones.
 - „ 114. Two models, illustrating the effects of circular motions.
 - „ 115. A cometarium.
 - „ 117. Two old sun-dials.
 - „ 118. A 10 $\frac{1}{2}$ -inch sixteenth-century celestial globe, on bronze tripod stand.
 - „ 119. Specimens of diffraction gratings, by Prof. W. A. Rogers.
 - „ 120. A 6-prism spectroscope, by Browning.
 - „ 121. Spitta's improved maximum and minimum thermometer.
 - „ 122. A 6-inch speculum, with flat; the speculum said to be by Sir W. Herschel, and re-figured by Sir J. Herschel.
 - „ 123. A 6-inch refracting telescope, by Grubb, with 3 eyepieces.
 - „ 124. Position micrometer, by Cooke.
 - „ 125. A 6-inch refracting telescope, by Simms, with eyepieces and solar diagonal.
 - „ 126. 3 $\frac{1}{2}$ -inch portable refracting telescope, by Tulley, with tripod stand.
 - „ 127. Globe representing the visible surface of the Moon, by John Russell, R.A. (1797).
 - „ 128. Bichromate battery and Ruhmkörff coil.
 - „ 129. Slater's improved armillary sphere.
 - „ 130. 10-inch brass pillar sextant with counterpoise stand, by Troughton.
 - „ 131. Double box sextant, by Cary.
 - „ 132. Equatorially mounted camera with 2 $\frac{1}{2}$ -inch portrait lens and telephotographic enlarging lens by Dallmeyer; iron pillar.
 - „ 133. 3 $\frac{1}{4}$ -inch equatorial by Ross, with tall tripod stand, equatorial mounting, eyepieces, and micrometer.
 - „ 134. Old transit instrument, 2-inch aperture and 3 feet focal length (without stand), formerly belonging to Dr. Longfield, of Cork.
 - „ 135. Globe of Mars, by E. M. Antoniadi.
 - „ 136. A small universal instrument by W. and S. Jones, London; the telescope 1 $\frac{1}{2}$ -inch aperture and 15 inches focal length. [Presented by Miss Moore.]
 - „ 137. Polar siderostat by Hilger, with 4 $\frac{1}{8}$ -inch mirrors. [Presented by Mr. Alexr. Foote.]

- No. 138. Transit instrument, aperture $2\frac{3}{4}$ -inch, with collimator and stand. [Presented by Mrs. Cross.]
 „ 139. Transit instrument, aperture $1\frac{1}{2}$ -inch, with portable stand. [Presented by Mrs. Cross.]
 „ 140. $3\frac{1}{2}$ -inch object-glass and tube. [Presented by Mrs. Cross.]
 „ 141. 9-inch Newtonian reflector and equatorial stand. [Presented by Mrs. Cross.]

Besides the above, there is the following apparatus available for eclipse work:—

- 4 Slits for Spectroscope.
 Abney doublet lens used in photographing the corona.
 2 Dallmeyer negative enlarging lenses.
 Cœlostæt with 16-inch plane mirror.

The following instruments are lent, during the pleasure of the Council, to the undermentioned persons:—

- No. 6. The Greig universal instrument, to Mr. W. Heath.
 „ 23. The *Matthew* transit, to Captain W. Noble.
 „ 29. (3) Equatorial mounting, clock, &c., to the Rev. C. D. P. Davies.
 „ „ Wire micrometer (No. 2), to the Rev. C. D. P. Davies.
 „ 30. (4) $3\frac{1}{4}$ -inch equatorial and stand, to Mr. M. E. J. Gheury.
 „ „ Double-image micrometer, to the Rev. W. J. B. Roome.
 „ 31. (15) $2\frac{3}{4}$ -inch telescope (object-glass only), to the Rev. C. D. P. Davies.
 „ 36. (10) Sextant, stand, &c., to Mr. Stanley Williams.
 „ 37. (11) Zenith telescope (object-glass only), to the Rev. C. D. P. Davies.
 „ 45. (19) Horizon, roof and mercury bottle, to Mr. Stanley Williams.
 „ 69. (43) Telescope with rock-crystal object-glass, to Sir W. Huggins.
 „ 98. 2-foot 6-inch navy telescope, to the Rev. J. M. Bacon.
 „ 119. Specimens of diffraction gratings, to Dr. Jas. Hunter.
 „ 120. 6-prism spectroscope, to Dr. Jas. Hunter.
 „ 123. 6-inch telescope, by Grubb (object-glass only), to Mr. W. E. Wilson.
 „ 126. $3\frac{1}{2}$ -inch portable telescope, by Tulley, to Mr. J. H. Bell.
 „ 130. 10-inch pillar sextant, to Mr. F. Robbins.
 „ 133. $3\frac{1}{4}$ -inch equatorial, by Ross, to Dr. A. W. Roberts.
 „ 137. $4\frac{1}{8}$ -inch polar siderostat, by Hilger, to Dr. Jas. Hunter.
 „ 138. $2\frac{3}{4}$ -inch transit and stand, to the Rev. E. Goetz.

- No. 139. Transit instrument and stand, to the Rev. C. L. Tweedale.
„ 140. $3\frac{1}{2}$ -inch object-glass and tube, to the Rev. C. L. Tweedale.
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The Gold Medal.

The Council have awarded the Society's Gold Medal to Professor G. E. Hale for his method of photographing the solar surface and other astronomical work. The President will lay before the Society the grounds upon which the award has been founded.

Publications of the Society.

During the past year vol. lxiii. of the *Monthly Notices* has been issued.

In accordance with the arrangement made with the Royal Society, mentioned in previous Annual Reports, two Appendices to vol. lxiii. of the *Monthly Notices* have been issued.

The following Appendices to the *Memoirs* have also been issued :—

Appendix IV. to vol. liv. Lockyer and Baxendall, The Spectrum of γ Cygni.

Appendix V. to vol. liv. Evershed, Solar Eclipse of 1900 May 28.

Appendix I. to vol. lv. Poynting, Radiation in the Solar System.

Vol. liv. of the *Memoirs* will shortly be published.

- No. 139. Transit instrument and stand, to the Rev. C. L. Tweedale.
„ 140. $3\frac{1}{2}$ -inch object-glass and tube, to the Rev. C. L. Tweedale.
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